

National Grid SA-COA **PRODUCTION FILE**

Contractor : ABB Contracting Co.

Project : SS 8709- 132/13.8kV in Alkharj City

Contract No : 11131113/00

Substation : 8709

**Subject : 132Kv Busbar Protection Set-1 (+BBP1-3)
Relay Panel-3**

ABB



POWER SYSTEMS NETWORK MANAGEMENT
PROTECTION AND SUBSTATION AUTOMATION SYSTEMS
WBS NO: S-13656

ABB AUTOMATION COMPANY LTD.
414, AL-KHARJ ROAD
SECOND INDUSTRIAL CITY
RIYADH-11383 K.S.A

CONTRACTOR : ABB Contracting Company
CLIENT : National GridSA
PROJECT : CONSTRUCTION OF NEW 132/13.8kV SS 8709 IN AL-KHARJ CITY
SUBSTATION : S/S 8709
CONTRACT NO. : 11131113/00
TITLE : Assembly Drawing - +BBP1-3
[132KV BUSBAR PROTECTION MAIN-1 BAY UNIT PANEL]

AS-BUILT BY _____ DATE _____ CONTRACT NO. **11131113/00** JOB ORDER NO. **S-13656**

01	13 49	FACTORY ASBUILT
00	13 04	FOR APPROVAL
REV. NO.	DATE	DESCRIPTION

DRAWN BY **RIZ** CHECKED BY **KVR**
DATE STARTED **24.01.2013** DATE COMPLETED _____
OPRG. DEPT. **CTPD** ENG. DEPT. **AUT-PSAC**

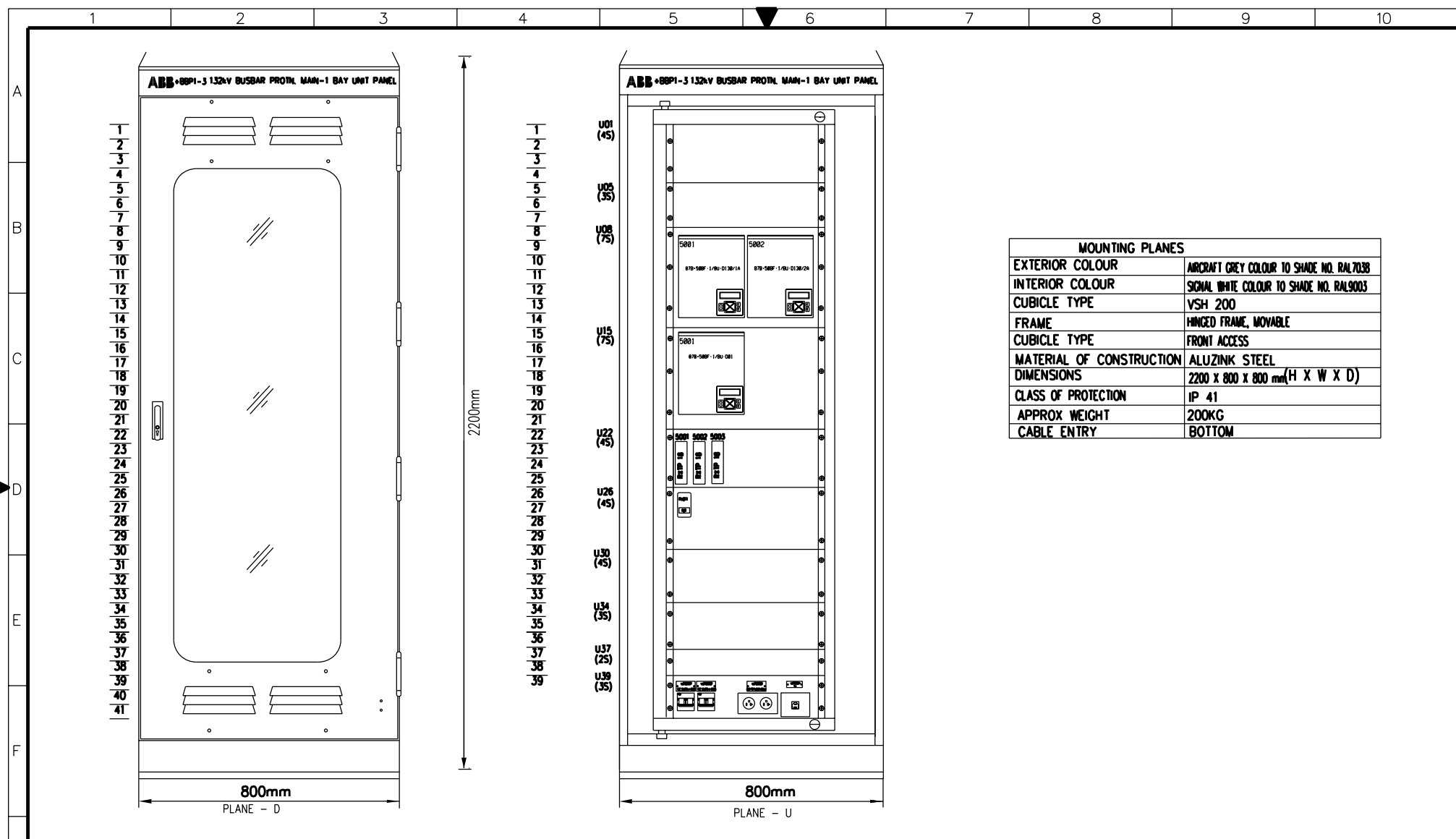
COVER SHEET

132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-3
S/S 8709 - 132/13.8KV IN AL-KHARJ CITY
RIYADH SAUDI ARABIA

الشركة الوطنية لنقل الكهرباء

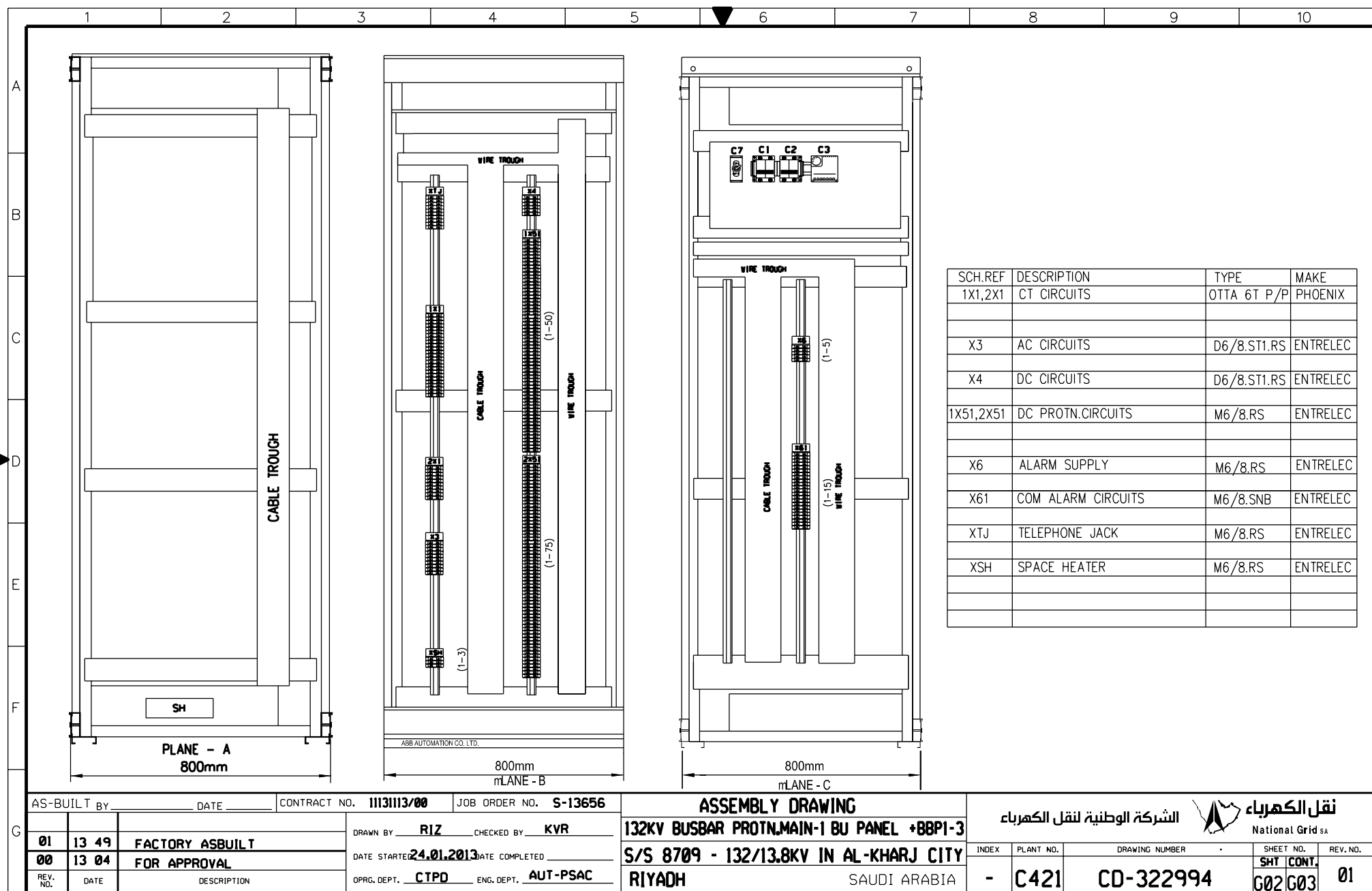


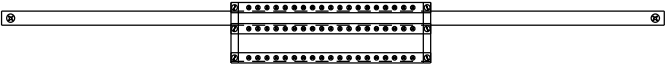
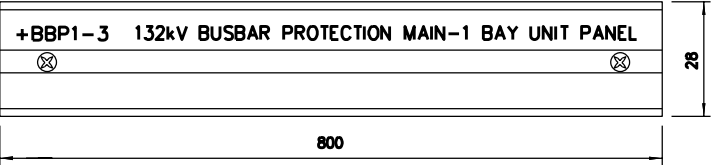
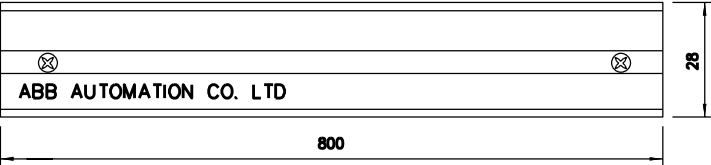



INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
-	C421	CD-322994	SHT CONT.	01
			G00 G01	



MOUNTING PLANES	
EXTERIOR COLOUR	AIRCRAFT GREY COLOUR TO SHADE NO. RAL7038
INTERIOR COLOUR	SIGNAL WHITE COLOUR TO SHADE NO. RAL9003
CUBICLE TYPE	VSH 200
FRAME	HINGED FRAME, MOVABLE
CUBICLE TYPE	FRONT ACCESS
MATERIAL OF CONSTRUCTION	ALUZINK STEEL
DIMENSIONS	2200 x 800 x 800 mm (H X W X D)
CLASS OF PROTECTION	IP 41
APPROX. WEIGHT	200KG
CABLE ENTRY	BOTTOM

AS-BUILT BY _____ DATE _____		CONTRACT NO. 11131113/00	JOB ORDER NO. S-13656	ASSEMBLY DRAWING		نقل الكهرباء الشركة الوطنية لنقل الكهرباء National Grid sa	
01	13 49	FACTORY ASBUILT		132KV BUSBAR PROT.N.MAIN-1 BU PANEL +BBP1-3		INDEX	PLANT NO.
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REV. NO.	DATE	DESCRIPTION	OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC	RIYADH SAUDI ARABIA		CD-322994	
						SHEET NO.	REV. NO.
						G01	01



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A	 <p style="text-align: center; margin-top: 10px;">TOP VIEW FOR EARTHING BAR</p>																																																	
B																																																		
C	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>U PLANE TOP LABEL</p>  </div> </div>																																																	
D																																																		
E	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>U PLANE BOTTOM LABEL</p>  </div> </div>																																																	
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MANUFACTURING LABEL

ABB ABB Automation Co.Ltd.	
PROJECT :	National Grid SA S/S 8709
ORDER REFERENCE :	2875 RF S13656
YEAR OF MANUFACTURE:	2013
PANEL NO. :	+BBP1-3
DRAWING NO. :	S13656-CD-322995
MADE IN THE KINGDOM OF SAUDI ARABIA	



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WBS NO: S-13656

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SECOND INDUSTRIAL CITY
RIYADH-11383 K.S.A

CONTRACTOR : ABB Contracting Company
CLIENT : National Gridsa
PROJECT : CONSTRUCTION OF NEW 132/13.8kV SS 8709 IN AL-KHARJ CITY
SUBSTATION : S/S 8709
CONTRACT NO. : 11131113/00
TITLE : LIST OF APPARATUS - +BBP1-3
[132KV BUSBAR PROTECTION MAIN-1 BAY UNIT PANEL]

AS-BUILT BY _____ DATE _____ CONTRACT NO. **11131113/00** JOB ORDER NO. **S-13656**

01	13 49	FACTORY ASBUILT	DRAWN BY RIZ CHECKED BY KVR
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COVER SHEET

132KV BUSBAR PROT.N.MAIN-1 BU PANEL +BBP1-3
S/S 8709 - 132/13.8KV IN AL-KHARJ CITY
RIYADH SAUDI ARABIA


الشركة الوطنية لنقل الكهرباء



INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
-	C421	CD-322994	SHT CONT. L00 L01	01

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AS-BUILT BY _____ DATE _____			CONTRACT NO. 11131113/00		JOB ORDER NO. S-13656		LIST OF APPARATUS				 نقل الكهرباء الشركة الوطنية لنقل الكهرباء National Grid SA									
			DRAWN BY RIZ CHECKED BY KVR		132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBPI-3				INDEX		PLANT NO.		DRAWING NUMBER		SHEET NO.		REV. NO.			
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1	2	3	4	5	6	7	8	9	10	
A	SR. NO.	GA REF.	SCH. REF.	DESCRIPTION		SHT.	QTY.	TYPE	MAKE	ORDERING INFORMATION
	10			MCB 2 POLE 6A. FOR DC SUPPLY WITH 2NC AUXILIARY CONTACT		216	3	S282 UC K6 S2-H02	ABB	GH S282 0164 R0317 GH S270 1916 R0003
		U39.5001	Q1	D01 - ±BF1						
B		U39.5002	Q2	D130 - ±BF1						
	11	U39.5003	C01	CONVENIENCE OUTLET 10A, 127V AC		211	1	USM45 & USM45E	GRAND	74140 & 74180
			C02	CONVENIENCE OUTLET 10A, 220V AC						
C	12		C1.C2	MINIATURE CIRCUIT BREAKER, 2 POLE, 10A FOR CONVENIENCE OUTLET WITH AUXILIARY SWITCH, 1NO + 1NC CONTACTS		211	2	S202P-K10 S2C-H11L	ABB	2CDS 252 001 R0427 GH S270 1917 R0001
	13		C3	THERMOSTAT FOR SPACE HEATER. 5-60 C		211	1	SK 3110	RITTAL	SK3110
	14	U39.5004	TJ	TELEPHONE JACK 1GANG 4WIRE		211	1	EDF410	EDISON	EDF410
D	15		C7	ON/OFF SWITCH FOR SPACE HEATER		211	1	M2SS1-10B MCBH-10	ABB	1SFA 611 200 R1006 1SFA 611 605 R1101
	16		DS	DOOR SWITCH FOR CONTROL OF CUBICLE INTERNAL ILLUMINATION LAMP		211	1	LS30PT3802	ABB	1SBV 010213R 1202
	17		IL	INTERNAL ILLUMINATION CUBICLE LAMP SUITABLE FOR 127V AC, 60Hz SUPPLY		211	1	T4	SUNON	SP-20W
E	18		SH	SPACE HEATER. 150W. 120V. 60Hz		211	1	RICA	GRUPPO	1FZEK006C001
F										

AS-BUILT BY _____ DATE _____		CONTRACT NO. 11131113/00		JOB ORDER NO. S-13656		LIST OF APPARATUS		الشركة الوطنية لنقل الكهرباء		نقل الكهرباء National Grid sa	
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REV. NO.	DATE	DESCRIPTION		OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		RIYADH SAUDI ARABIA		SHT		CONT.	REV. NO.
								L03		L04	01

LABEL REF.	LABEL ENGRAVING	MATERIALS	ENGRAVING	LABEL SIZE	LETTER SIZE
U08.5001	U08.5001 878+508F-1/BU-D130/1A	TRAFOLITE	BLACK LETTERS ON WHITE BACKGROUND	50x15mm	4mm
U08.5002	U08.5002 878+508F-1/BU-D130/2A	TRAFOLITE	BLACK LETTERS ON WHITE BACKGROUND	50x15mm	4mm
U15.5001	U15.5001 878+508F-1/BU-D01	TRAFOLITE	BLACK LETTERS ON WHITE BACKGROUND	50x15mm	4mm
U22.5001	U22.5001 IS-1	ALUMINUM PAPER FOIL	BLACK LETTERS	50x10mm	3mm
U22.5002	U22.5002 IS-2	ALUMINUM PAPER FOIL	BLACK LETTERS	50x10mm	3mm
U22.5003	U22.5003 IS-3	ALUMINUM PAPER FOIL	BLACK LETTERS	50x10mm	3mm
U26.101	U26.101 Z4BE-1/D01	ALUMINUM PAPER FOIL	BLACK LETTERS	50x10mm	3mm
U37.5001	U37.5001 DC SUPPLY MCB FOR D01	TRAFOLITE	BLACK LETTERS ON WHITE BACKGROUND	50x15mm	4mm
U37.5002	U37.5002 DC SUPPLY MCB FOR D130	TRAFOLITE	BLACK LETTERS ON WHITE BACKGROUND	50x15mm	4mm
U37.5003	U37.5003 C01-127V.C02-220V	TRAFOLITE	BLACK LETTERS ON WHITE BACKGROUND	50x15mm	4mm
U37.5004	U37.5004 IJ	TRAFOLITE	BLACK LETTERS ON WHITE BACKGROUND	50x15mm	4mm

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01	13 49	FACTORY ASBUILT FOR APPROVAL	DRAWN BY RIZ CHECKED BY KVR		132KV BUSBAR PROTN.MAIN-1 BU PANEL +88P1-3				INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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REV. NO.	DATE	DESCRIPTION	OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		RIYADH SAUDI ARABIA								

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NG/D2-D (2012/01)
VECTOR NGD200

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WBS NO: S-13656

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PROJECT : CONSTRUCTION OF NEW 132/13.8kv SS 8709 IN AL-KHARJ CITY
SUBSTATION : S/S 8709
CONTRACT NO. : 11131113/00
TITLE : SCHEMATICS DRAWINGS - +BBP1-3
[132KV BUSBAR PROTECTION MAIN-1 BAY UNIT PANEL]

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COVER SHEET

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LEGENDS

±R1	DC SUPPLY - MAIN PROTECTION
±R2	DC SUPPLY - SECONDARY PROTECTION
±R3	DC SUPPLY - BACK UP PROTECTION
±IT	DC SUPPLY - INTER TRIP
FL	DC SUPPLY - FLASHING CIRCUIT
BB RS±	DC SUPPLY - BUS BAR - PROTECTION RESET
BB CBF±/CBF±	DC SUPPLY - CBF PROTECTION
R	RESET BUS - ALARM SYSTEM
CR	CONTROL ROOM
ECC	ENERGY CONTROL CENTRE
LOCAL	THE LOCATION OF CONTROLLED DEVICE
REMOTE	ANY OTHER LOCATION NOT LOCAL
ON	CB NORMALLY OPEN AUXILIARY CONTACT
OFF	CB NORMALLY CLOSED AUXILIARY CONTACT
A	COMMON
T	TEST POSITION
S	SERVICE POSITION
CS	CLOSE IN SERVICE POSITION
CT	CLOSE IN TEST POSITION
LS	LOCAL SERVICE
LT	LOCAL TEST
LC	LOCAL CLOSE
LO	LOCAL OPEN
RO	REMOTE OPEN
OP	OPERATE
RE	RESET

NOTES

LABELS

WHITE LABEL WITH BLACK LETTERING WILL BE PROVIDED FOR ALL MOUNTED APPARATUS EQUIPMENT IDENTIFICATION AND FUNCTION REFERENCE LABEL WILL BE PROVIDED FOR FRONT MOUNTED EQUIPMENTS OF THE PANEL AND EQUIPMENT IDENTIFICATION LABEL WILL BE PROVIDED FOR INTERNALLY MOUNTED EQUIPMENTS

WIRING

PVC INSULATED 600V GRADE
2.5 SQ.mm. YELLOW COLOURED FOR CT CIRCUITS
2.5 SQ.mm. RE COLOURED FOR VT CIRCUITS
1.5 SQ.mm. GREY COLOURED FOR DC SUPPLY, SCADA AND CONTROL CIRCUITS
2.5 SQ.mm. BLACK COLOURED FOR AVC AND AC CIRCUITS
2.5 SQ.mm. YELLOW/GREEN COLOURED FOR EARTHING CONNECTIONS
FOLLOWING MARKERS SHALL BE PROVIDED ON FOLLOWING WIRES:
+ SIGN FOR DC + WIRE
- SIGN FOR DC - WIRE

LUGS

A. CT CIRCUITS- RING TYPE
B. OTHER CIRCUITS - SPADE TYPE

FERULLING

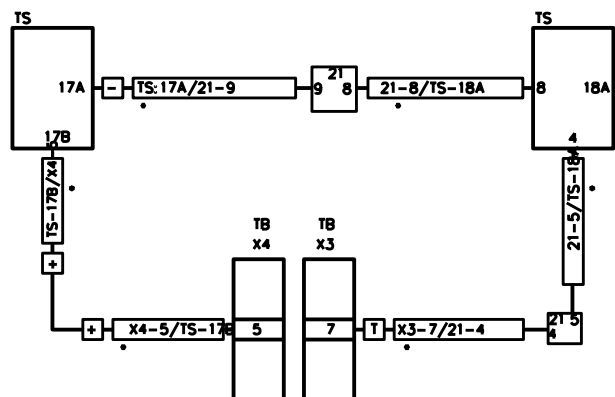
YELLO TUBE 3.2 mm FOR 1.5SQ mm WIRES AND 4.2 FOR 2.5 SQ mm WIRES
(AS PER 31 - TMSS-1, RE.0)

AS-BUILT BY _____ DATE _____		CONTRACT NO. 11131113/00	JOB ORDER NO. S-13656
01	13 49	FACTORY ASBUILT	
00	13 04	FOR APPROVAL	
REV. NO.	DATE	DESCRIPTION	

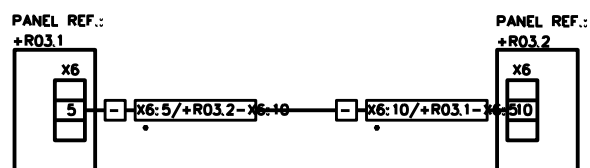
COMMON LEGEND	
132KV BUSBAR PROT.N.MAIN-1 BU PANEL +BBP1-3	
S/S 8709 - 132/13.8KV IN AL-KHARJ CITY	
RIYADH SAUDI ARABIA	

DRAWN BY RIZ CHECKED BY KVR	
DATE STARTED 24.01.2013	DATE COMPLETED _____
OPRG. DEPT. CTPD	ENG. DEPT. AUT-PSAC

الشركة الوطنية لنقل الكهرباء National Grid sa				
INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
-	C421	CD-322995	013 014	01



FOR 132kV PANELS INTERPANEL WIRING



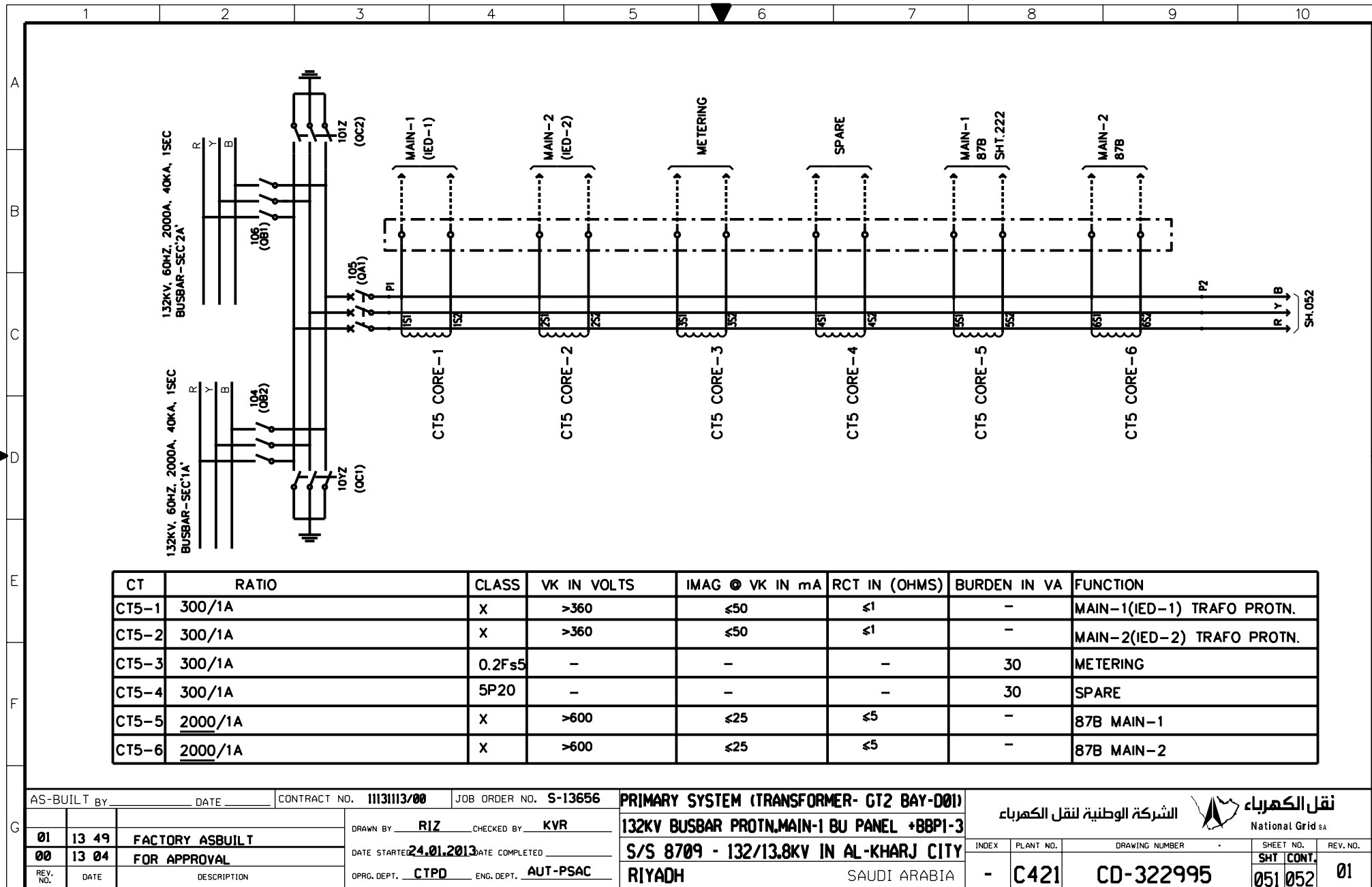
AS PER IEC-391 FIG 14d (W/O SUPPLEMENTARY/IDENTIFICATION MARK)

WIRES -
PVC insulated, stranded,
cooled annealed copper
conductor graded for 1000V

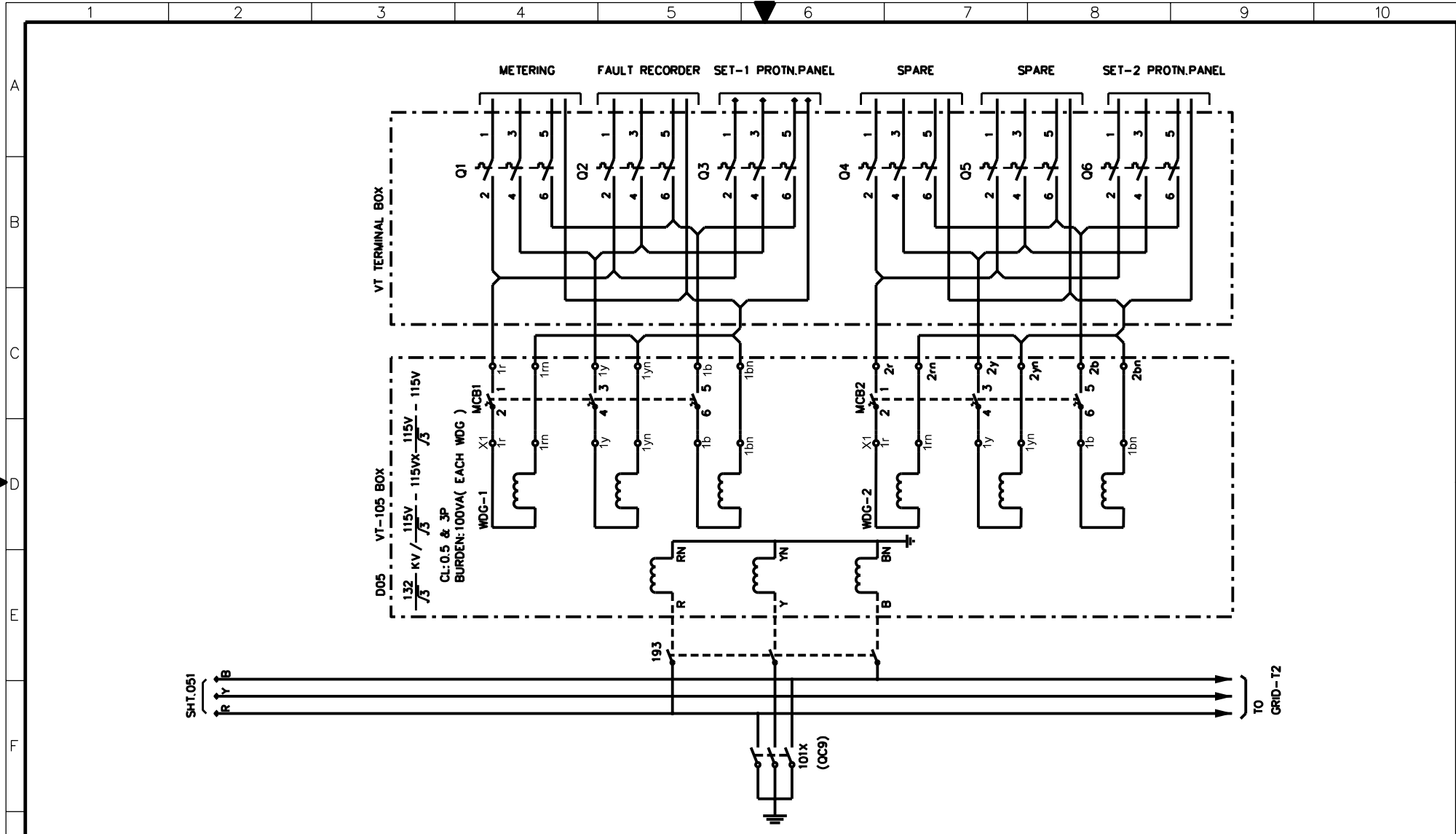
f. Earth Circuits - 2.5 Sqmm PVC Yellow/Green colour

b) Other Circuits - Spode type

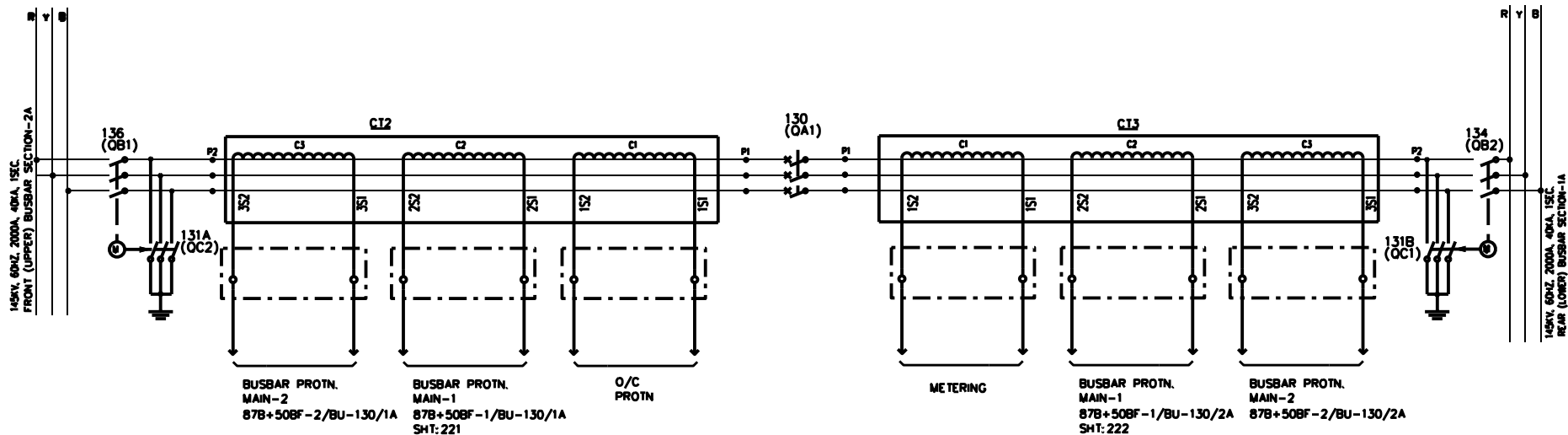
AS-BUILT BY _____ DATE _____			CONTRACT NO. 11131113/00		JOB ORDER NO. S-13656		FERRULE AND WIRING DETAILS				نقل الكهرباء الشركة الوطنية لنقل الكهرباء National Grid SA											
01 00			13 49 13 04		FACTORY ASBUILT FOR APPROVAL		DRAWN BY RIZ CHECKED BY KVR		132KV BUSBAR PROTN.MAIN-1 BU PANEL +8BP1-3				INDEX		PLANT NO.		DRAWING NUMBER		SHEET NO.		REV. NO.	
							DATE STARTED 24.01.2013 DATE COMPLETED _____		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY				-		C421		CD-322995		014 015		01	
REV. NO.			DATE		DESCRIPTION		OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		RIYADH SAUDI ARABIA													



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AS-BUILT BY _____ DATE _____			CONTRACT NO. 11131113/00		JOB ORDER NO. S-13656		PRIMARY SYSTEM (TRANSFORMER- GT2 BAY-001)				الشركة الوطنية لنقل الكهرباء			
DRAWN BY RIZ CHECKED BY KVR			DATE STARTED 24.01.2013 DATE COMPLETED _____		DATE COMPLETED _____		132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-3				National Grid sa			
OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC			S/S 8709 - 132/13.8KV IN AL-KHARJ CITY		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY		RIYADH SAUDI ARABIA				National Grid sa			
REV. NO. 00 DATE 13 04 DESCRIPTION FOR APPROVAL			INDEX - PLANT NO. C421		DRAWING NUMBER CD-322993		SHEET NO. 052/053 REV. NO. 01				SHEET NO. 052/053 REV. NO. 01			



LOCATION OF GIS CT	CT	RATIO	CLASS	VK IN VOLT	IMAGE IN MA @ VK	RCT IN OHMS	BURDEN IN VA	BURDEN IN VA
BUS 1A	CT3 CORE-1	2000/1A	0.2 1SF<10	--	--	--	30	CONTROL IED (BCU) + METERING
	CT3 CORE-2	2000/1A	x	>500 at 2000/1A TAP	< = 25	<5	--	87B+508F-1/BU-130/2A MAIN-1
	CT3 CORE-3	2000/1A	x	>500 at 2000/1A TAP	< = 25	<5	--	87B+508F-2/BU-130/2A MAIN-2
BUS 2A	CT2 CORE-1	2000/1A	x	>500 at 2000/1A TAP	< = 25	<5	--	50+628F+50/51+50/51N
	CT2 CORE-2	2000/1A	x	>500 at 2000/1A TAP	< = 25	<5	--	87B+508F-1/BU-130/1A MAIN-1
	CT2 CORE-3	2000/1A	x	>500 at 2000/1A TAP	< = 25	<5	--	87B+508F-2/BU-130/1A MAIN-2

AS-BUILT BY _____ DATE _____ CONTRACT NO. 11131113/00 JOB ORDER NO. S-13656

01	13 49	FACTORY ASBUILT	DRAWN BY RIZ CHECKED BY KVR
00	13 04	FOR APPROVAL	DATE STARTED 24.01.2013 DATE COMPLETED _____
REV. NO.	DATE	DESCRIPTION	OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC

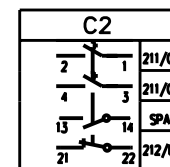
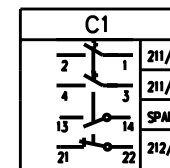
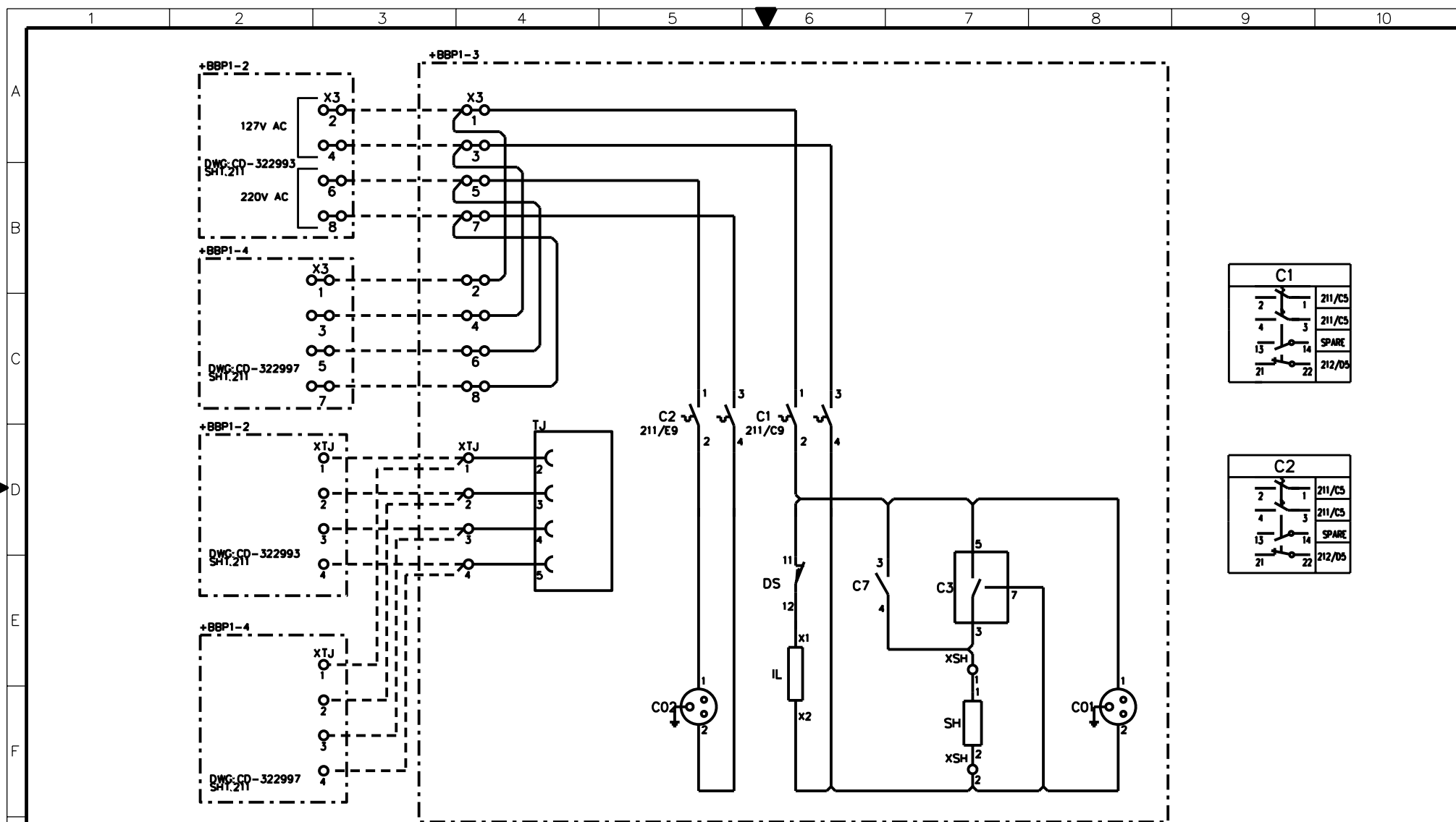
PRIMARY SYSTEM-BUS COUPLER 130

132KV BUSBAR PROTN. MAIN-1 BU PANEL +8BP1-3
S/S 8709 - 132/13.8KV IN AL-KHARJ CITY
RIYADH SAUDI ARABIA

الشركة الوطنية لنقل الكهرباء



INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
-	C421	CD-322995	053	211



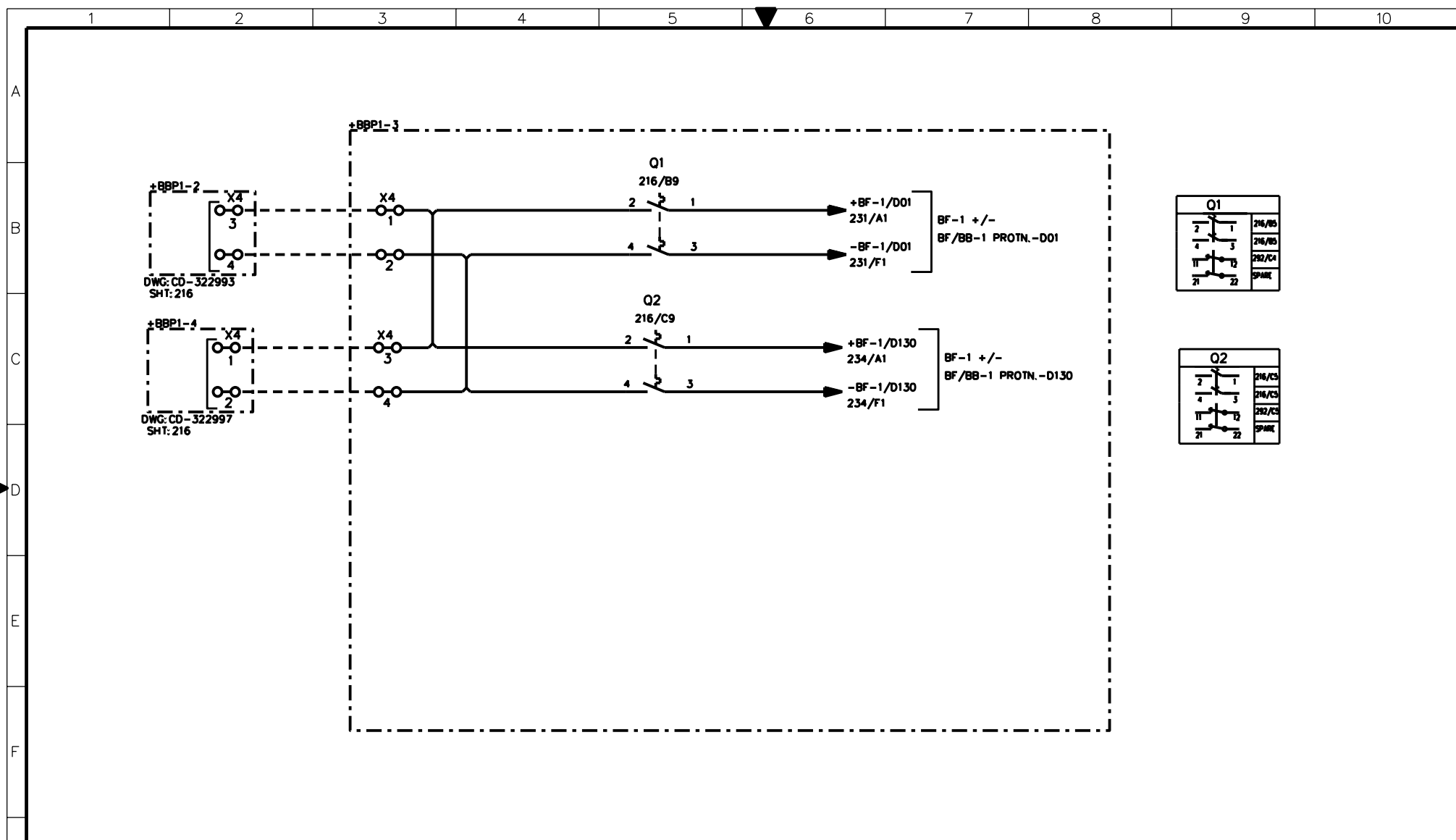
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00	13 04	FOR APPROVAL
REV. NO.	DATE	DESCRIPTION

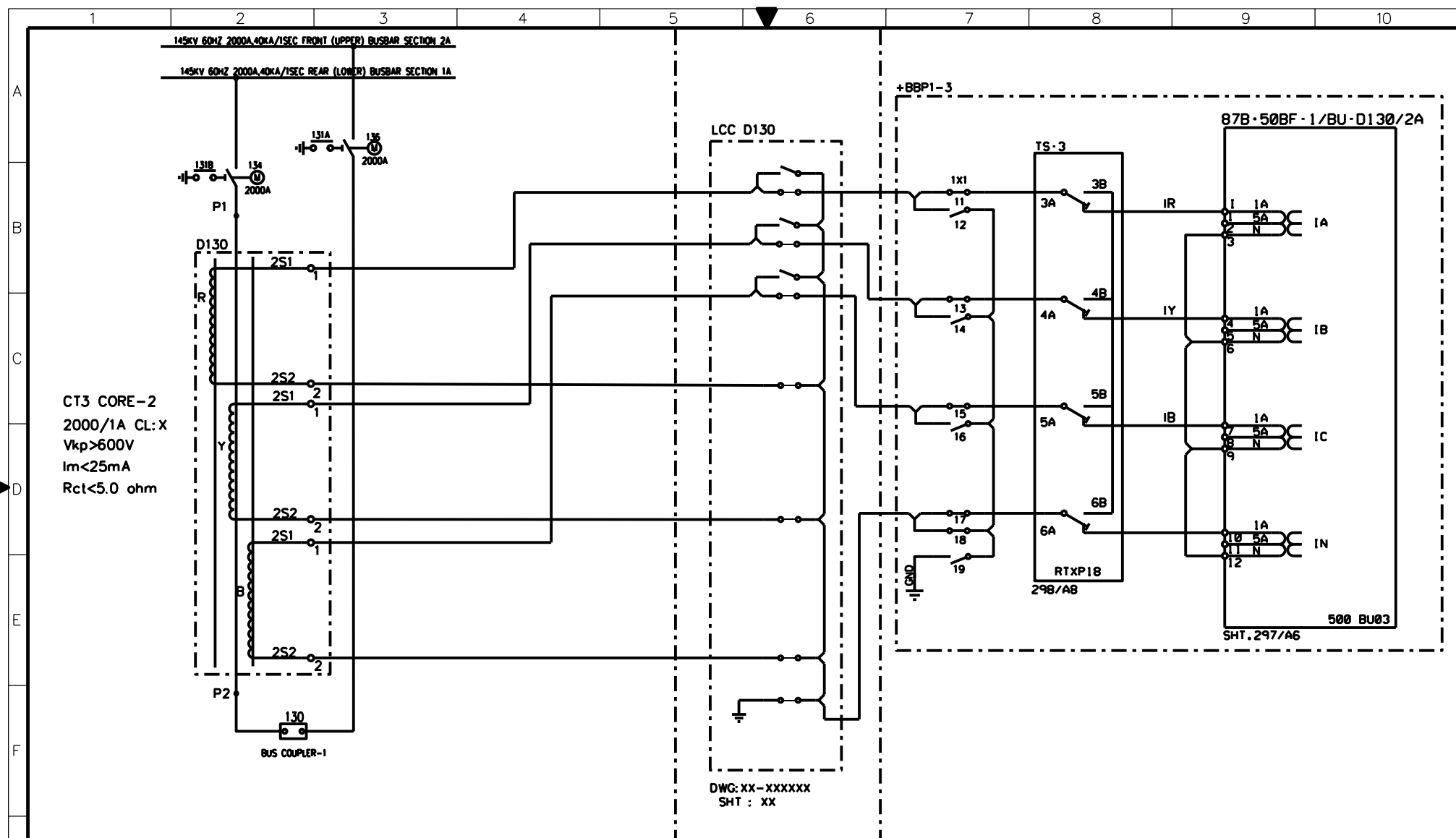
DRAWN BY **RIZ** CHECKED BY **KVR**
 DATE STARTED **24.01.2013** DATE COMPLETED _____
 OPRG. DEPT. **CTPD** ENG. DEPT. **AUT-PSAC**

AC SUPPLY FOR ILLUMINATION & POWER SOCKET
132KV BUSBAR PROTN. MAIN-1 BU PANEL +BBP1-3
S/S 8709 - 132/13.8KV IN AL-KHARJ CITY
RIYADH SAUDI ARABIA

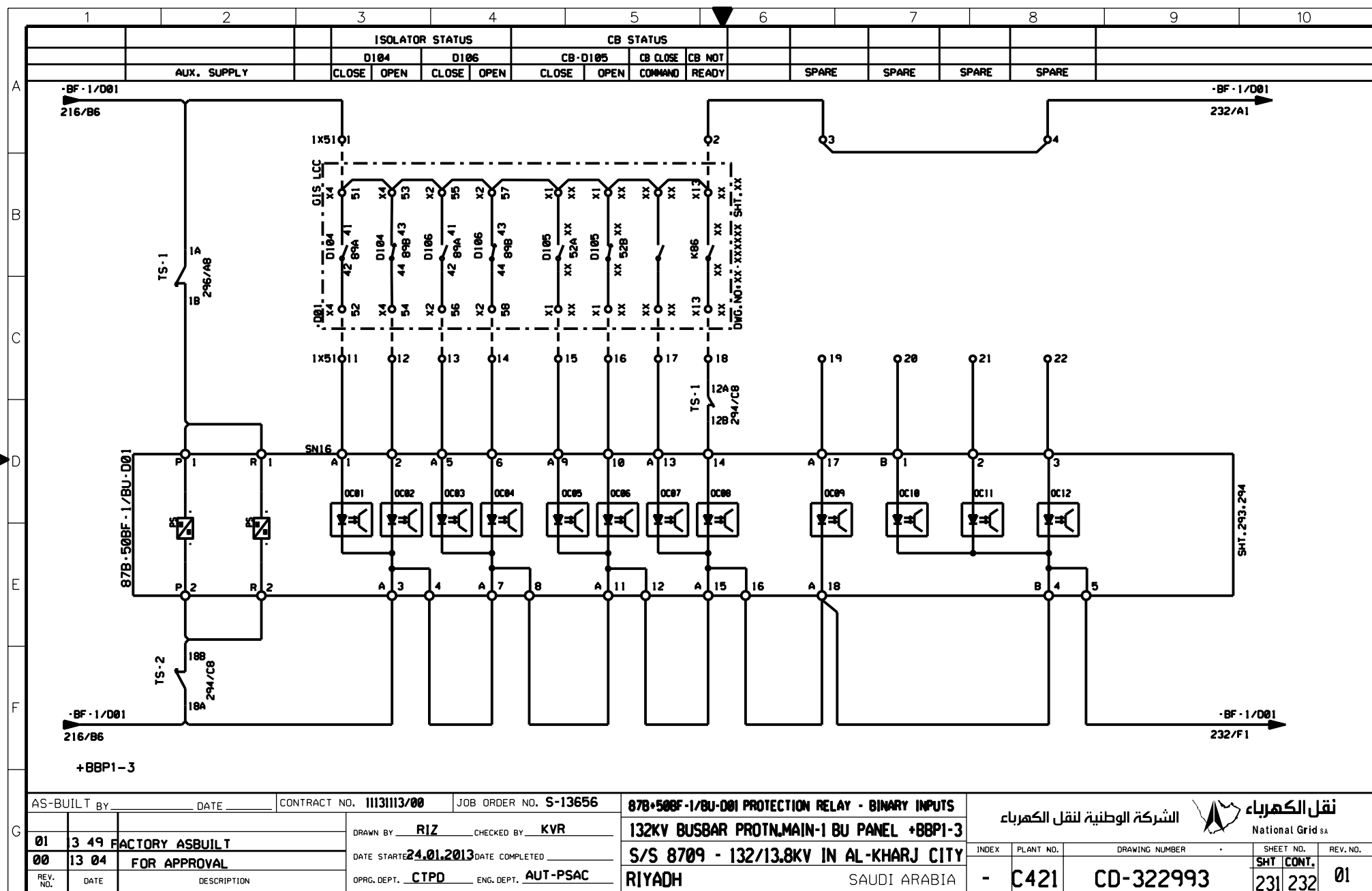
الشركة الوطنية لنقل الكهرباء		National Grid sa	
INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.
-	C421	CD-322995	211 212
			REV. NO.
			01



AS-BUILT BY _____ DATE _____			CONTRACT NO. 11131113/00		JOB ORDER NO. S-13656		DC SUPPLY DISTRIBUTION			الشركة الوطنية لنقل الكهرباء National Grid sa		
			DRAWN BY RIZ CHECKED BY KVR		132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-3			INDEX			PLANT NO.	
01 13 49			DATE STARTED 24.01.2013 DATE COMPLETED		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY			DRAWING NUMBER			SHEET NO.	
00 13 04			OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		RIYADH SAUDI ARABIA			-			C421	
FACTORY ASBUILT								CD-322995			216 221	
FOR APPROVAL											01	
REV. NO.			DESCRIPTION									
DATE												



AS-BUILT BY _____ DATE _____		CONTRACT NO. 11131113/00	JOB ORDER NO. S-13656	CURRENT TRANSFORMER INPUTS -87B*50BF-1/BU-D130/2A		نقل الكهرباء الشركة الوطنية لنقل الكهرباء National Grid sa	
01	13 49	FACTORY ASBUILT		132KV BUSBAR PROT.N.MAIN-1 BU PANEL +BBP1-3		INDEX	PLANT NO.
00	13 04	FOR APPROVAL		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY		DRAWING NUMBER	
REV. NO.	DATE	DESCRIPTION	OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC	R/YADH SAUDI ARABIA		CD-322995	
						SHEET NO.	REV. NO.
						223	01
						CONT.	
						231	



AS-BUILT BY _____ DATE _____ CONTRACT NO. **1113113/00** JOB ORDER NO. **S-13656**

01	3 49	FACTORY ASBUILT
00	13 04	FOR APPROVAL
REV. NO.	DATE	DESCRIPTION

DRAWN BY **RIZ** CHECKED BY **KVR**

DATE STARTED **24.01.2013** DATE COMPLETED _____

OPRG. DEPT. **CTPD** ENG. DEPT. **AUT-PSAC**

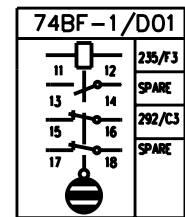
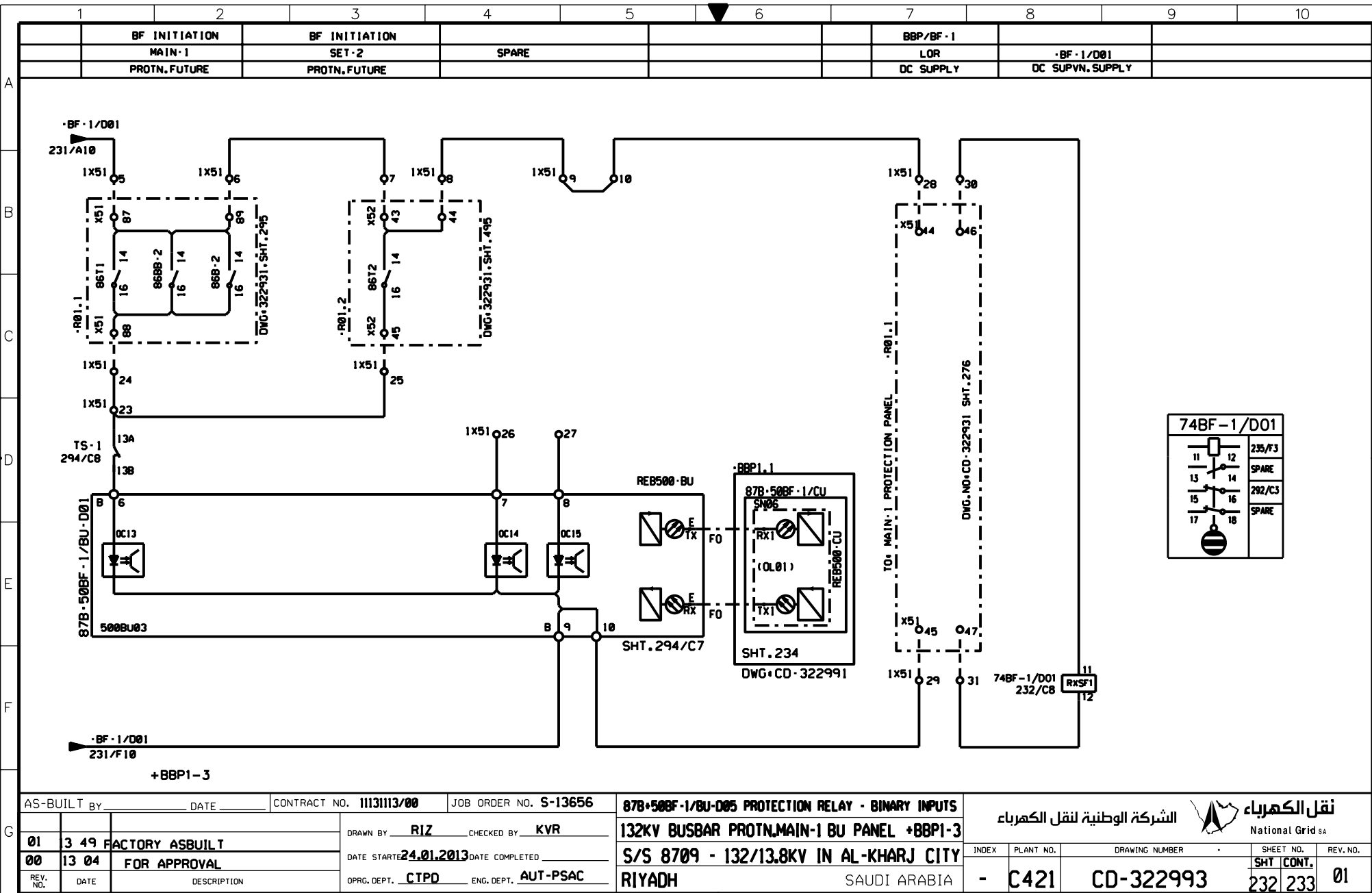
87B-50BF-1/BU-D01 PROTECTION RELAY - BINARY INPUTS

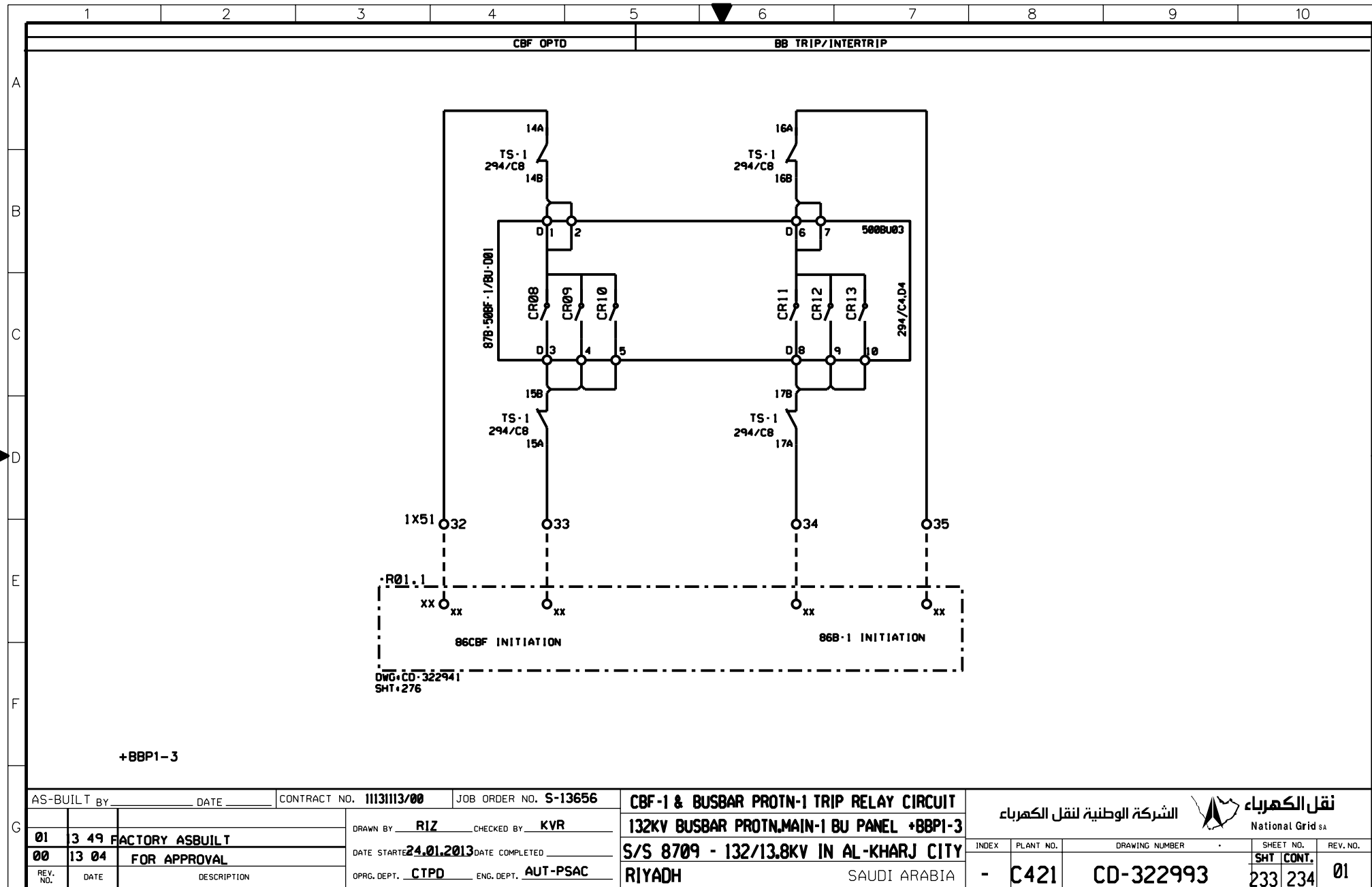
132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-3

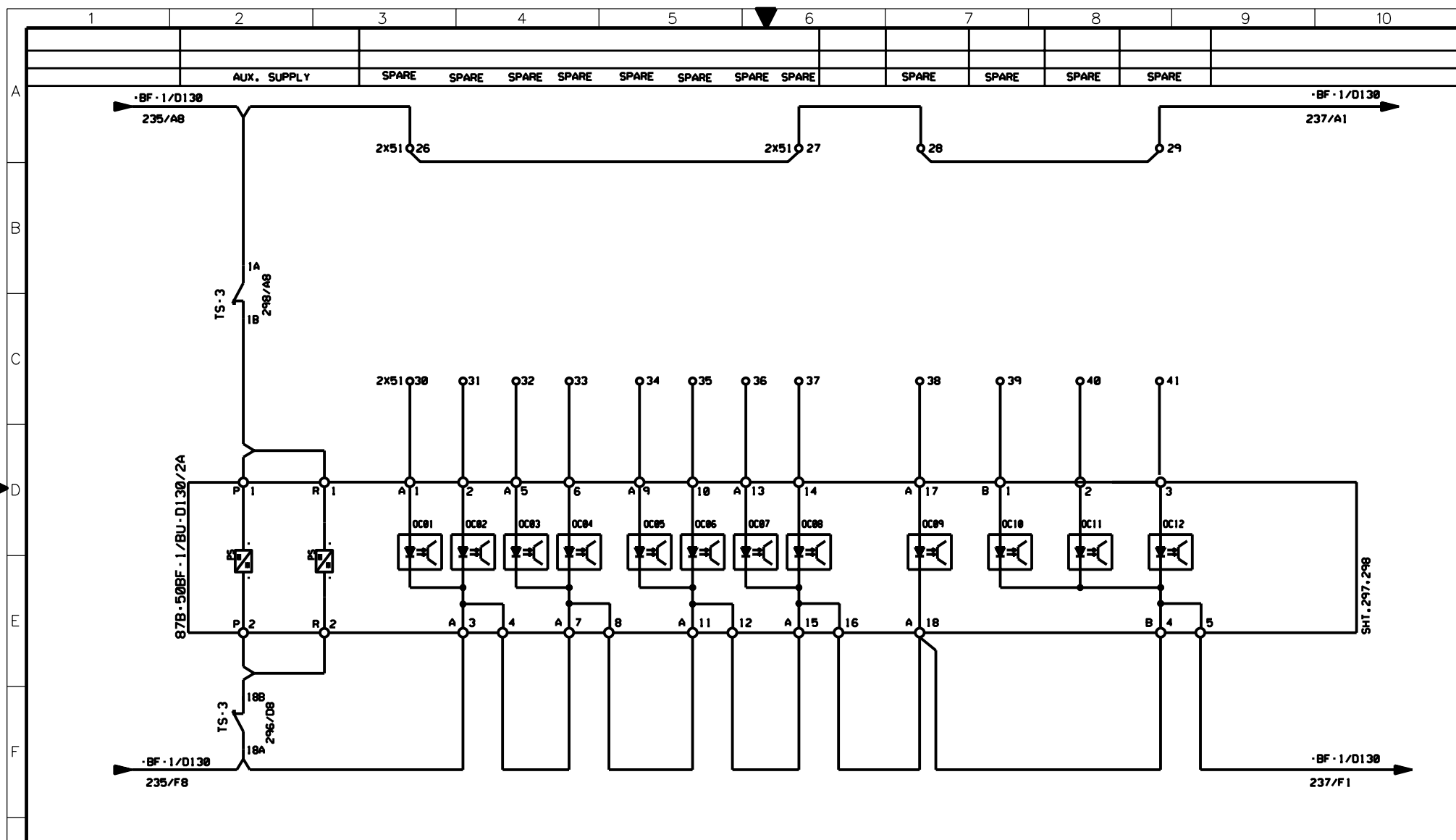
S/S 8709 - 132/13.8KV IN AL-KHARJ CITY

RIYADH SAUDI ARABIA

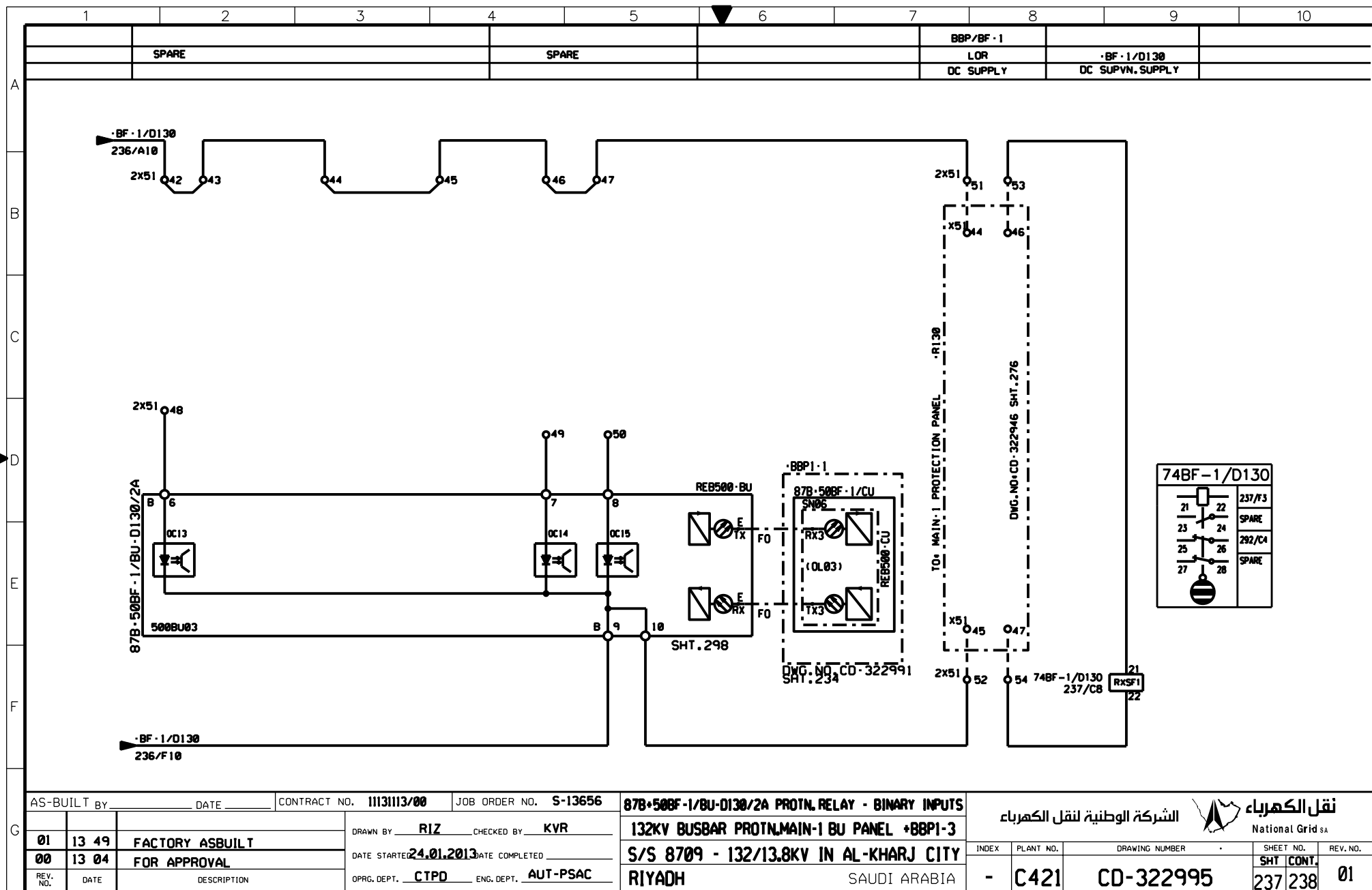
نقل الكهرباء الشركة الوطنية لنقل الكهرباء National Grid sa				
INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
-	C421	CD-322993	SHT 231 CONT. 232	01

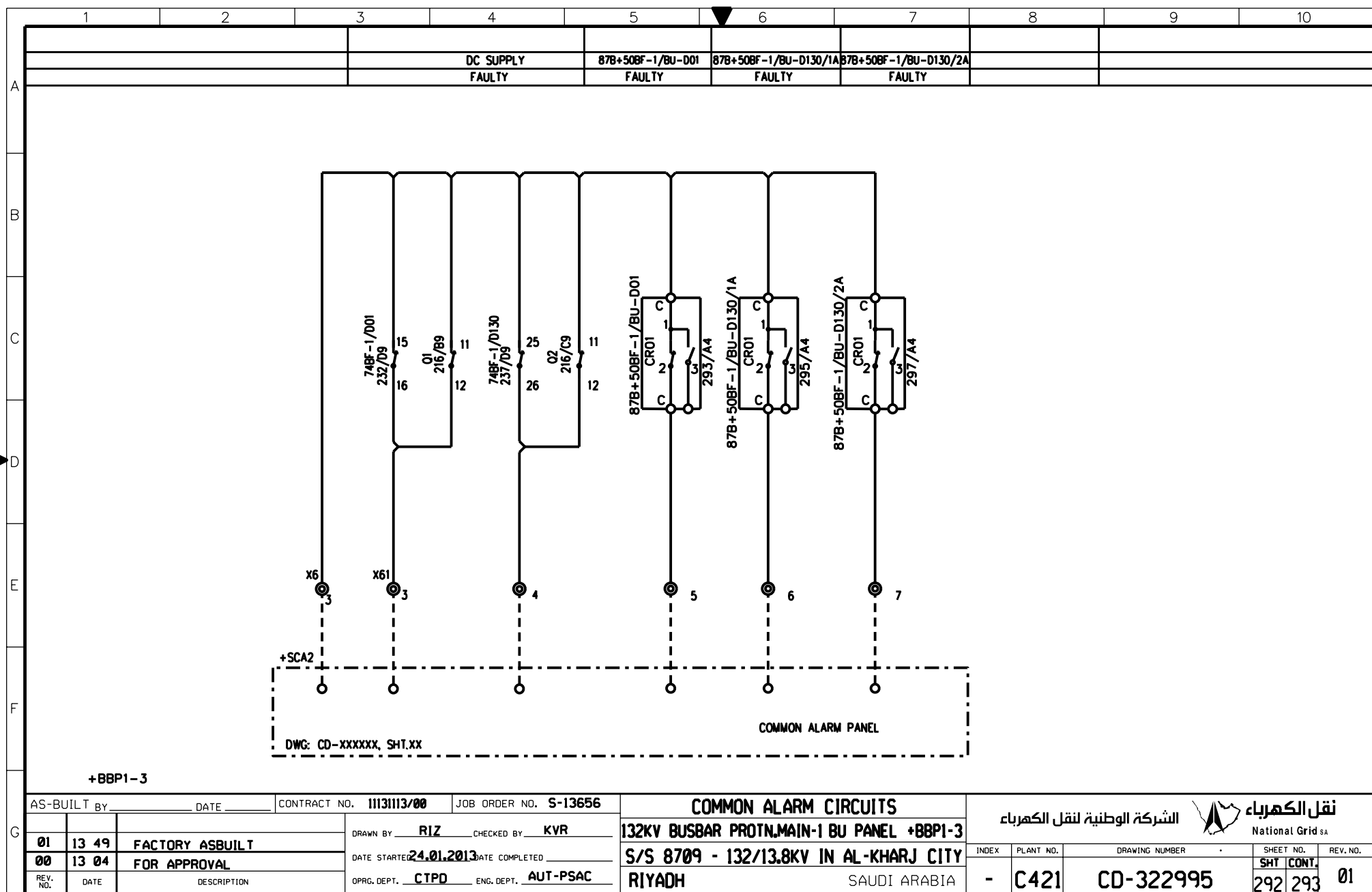


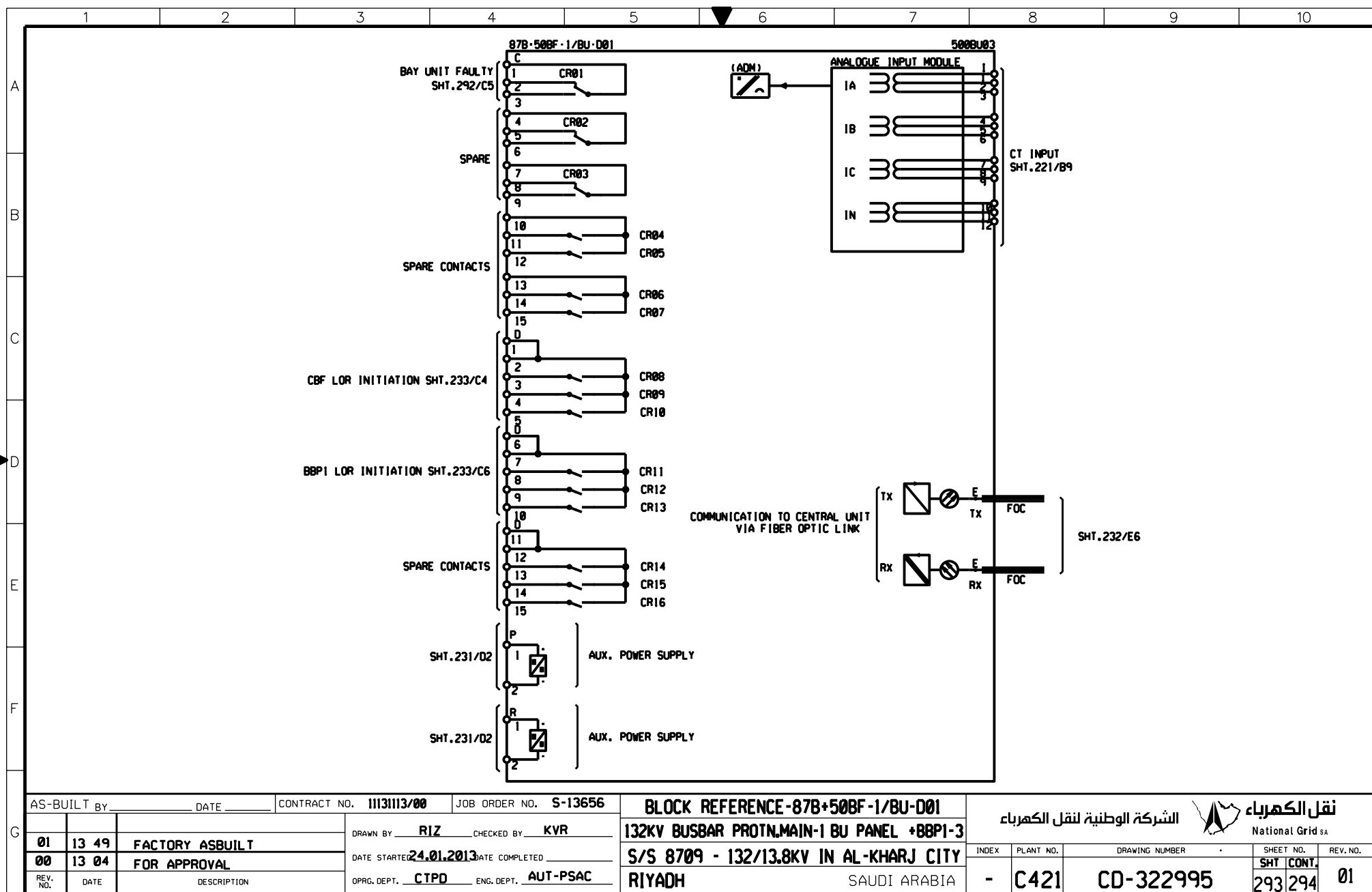


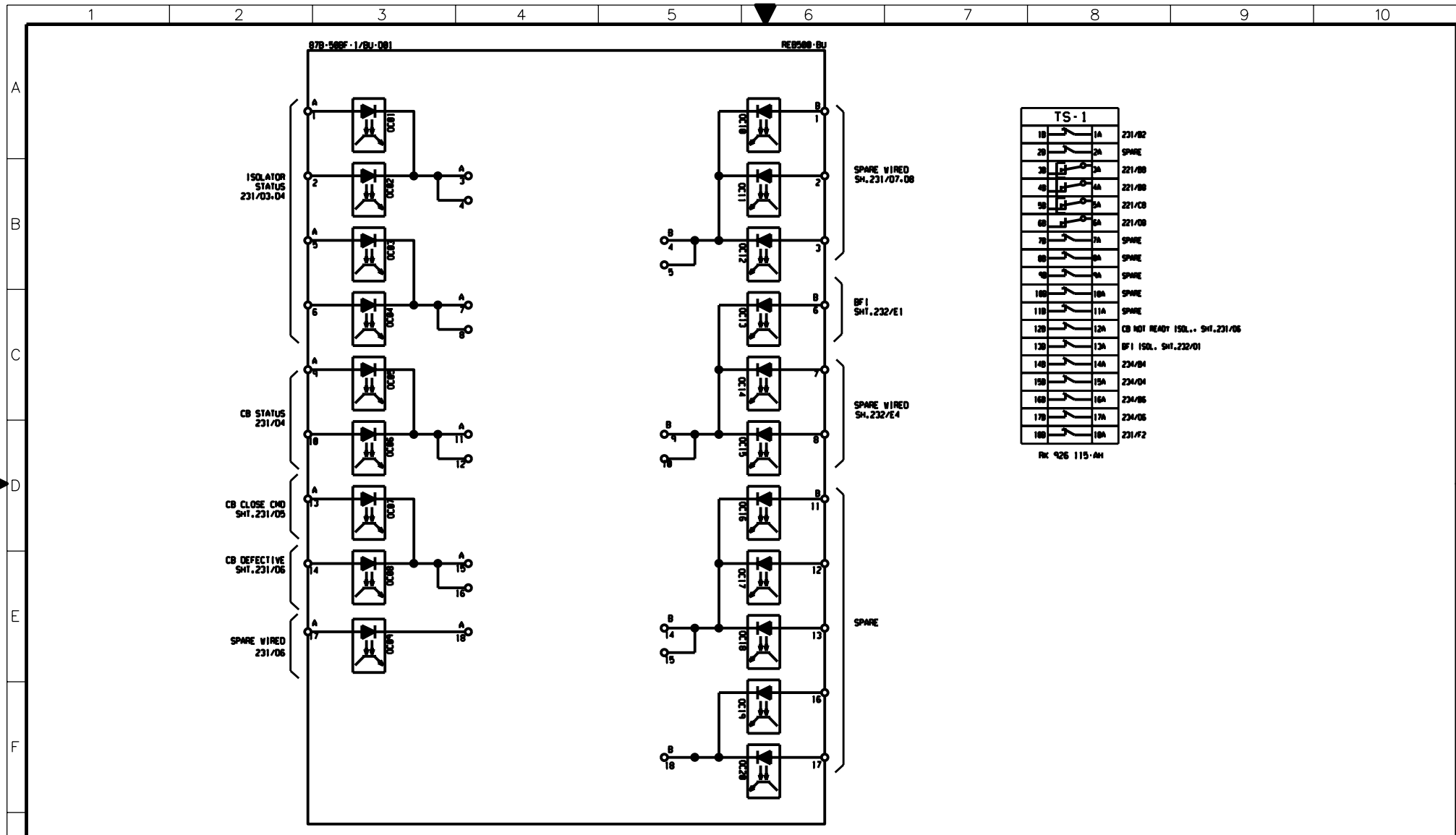


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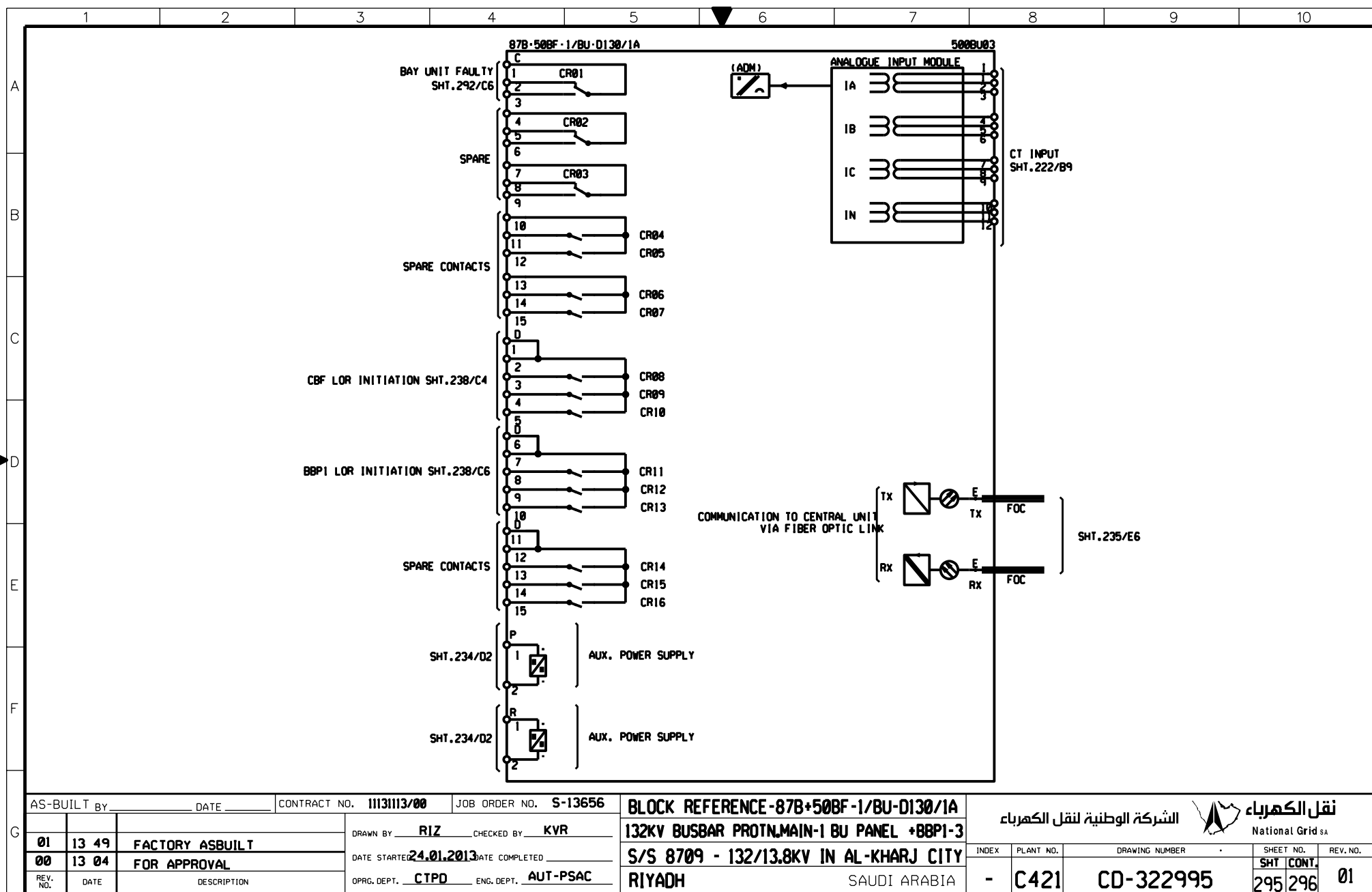


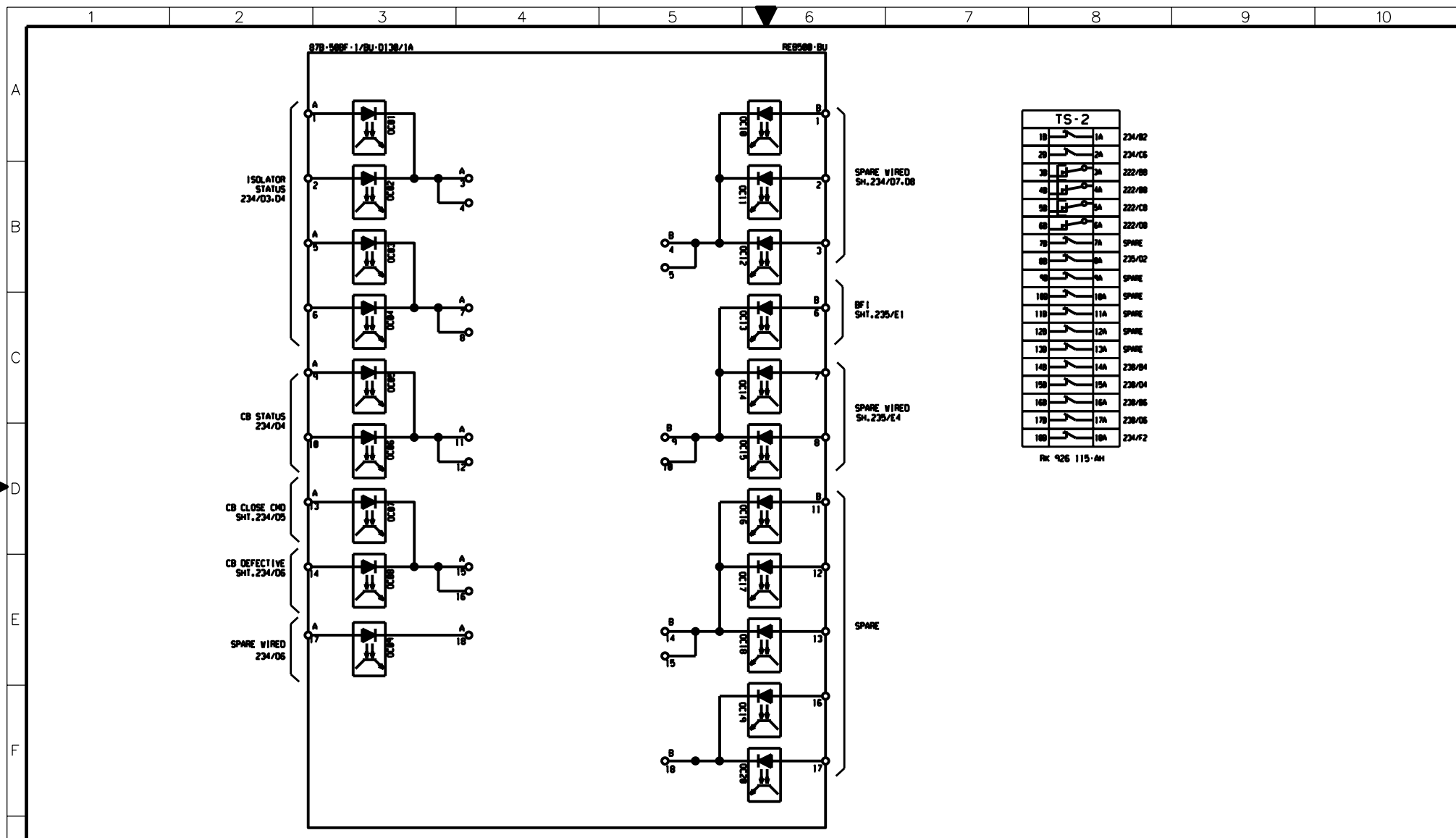






AS-BUILT BY _____ DATE _____			CONTRACT NO. 1113113/00		JOB ORDER NO. S-13656		BLOCK REFERENCE-87B+50BF-1/BU-D01			نقل الكهرباء الشركة الوطنية لنقل الكهرباء National Grid SA				
DRAWN BY RIZ CHECKED BY KVR			DATE STARTED 24.01.2013 DATE COMPLETED _____			132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-3			INDEX PLANT NO. DRAWING NUMBER SHEET NO. REV. NO.					
FOR APPROVAL			OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC			S/S 8709 - 132/13.8KV IN AL-KHARJ CITY			- C421 CD-322995 294 295 01					
DESCRIPTION						SAUDI ARABIA								

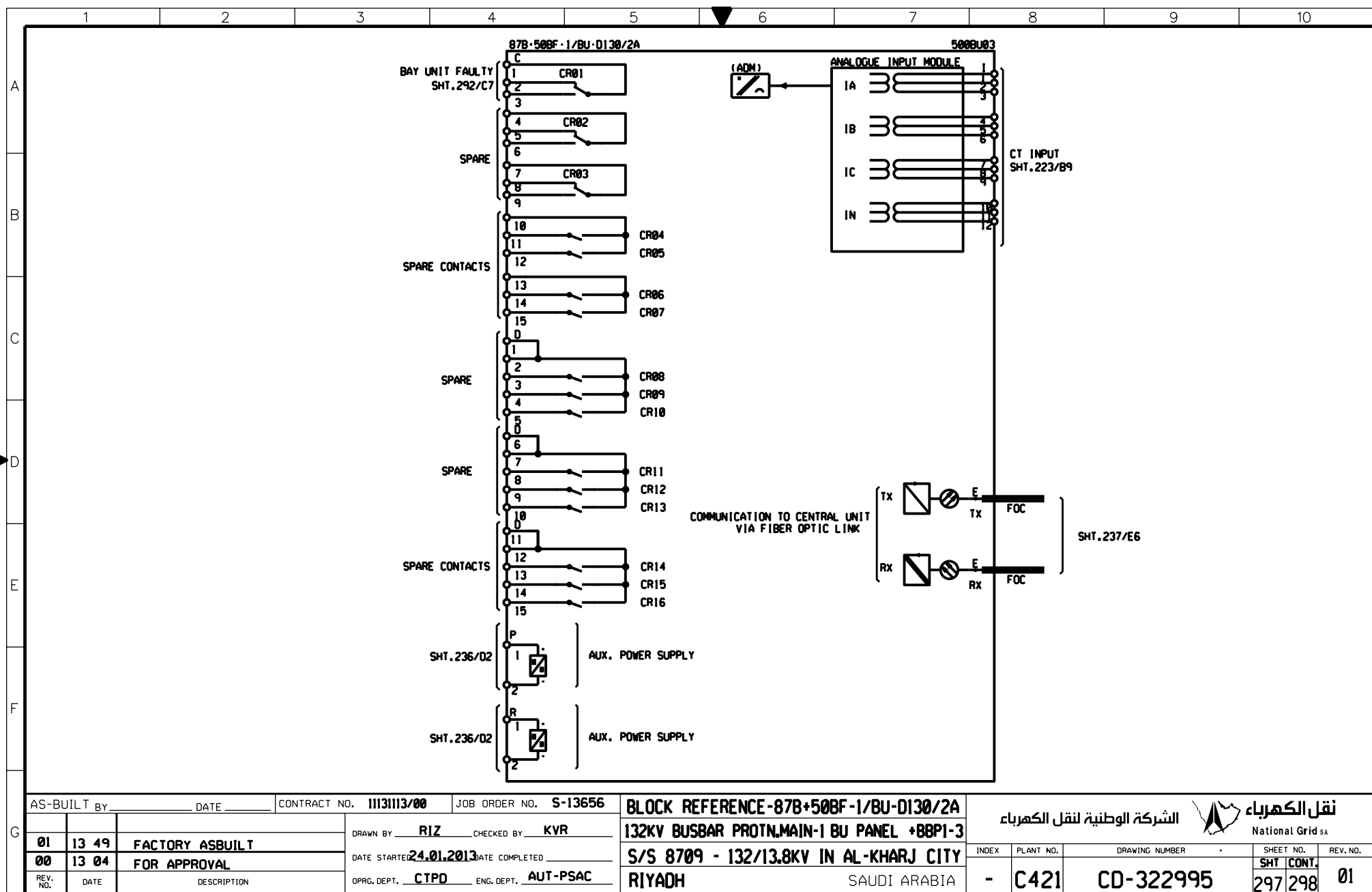




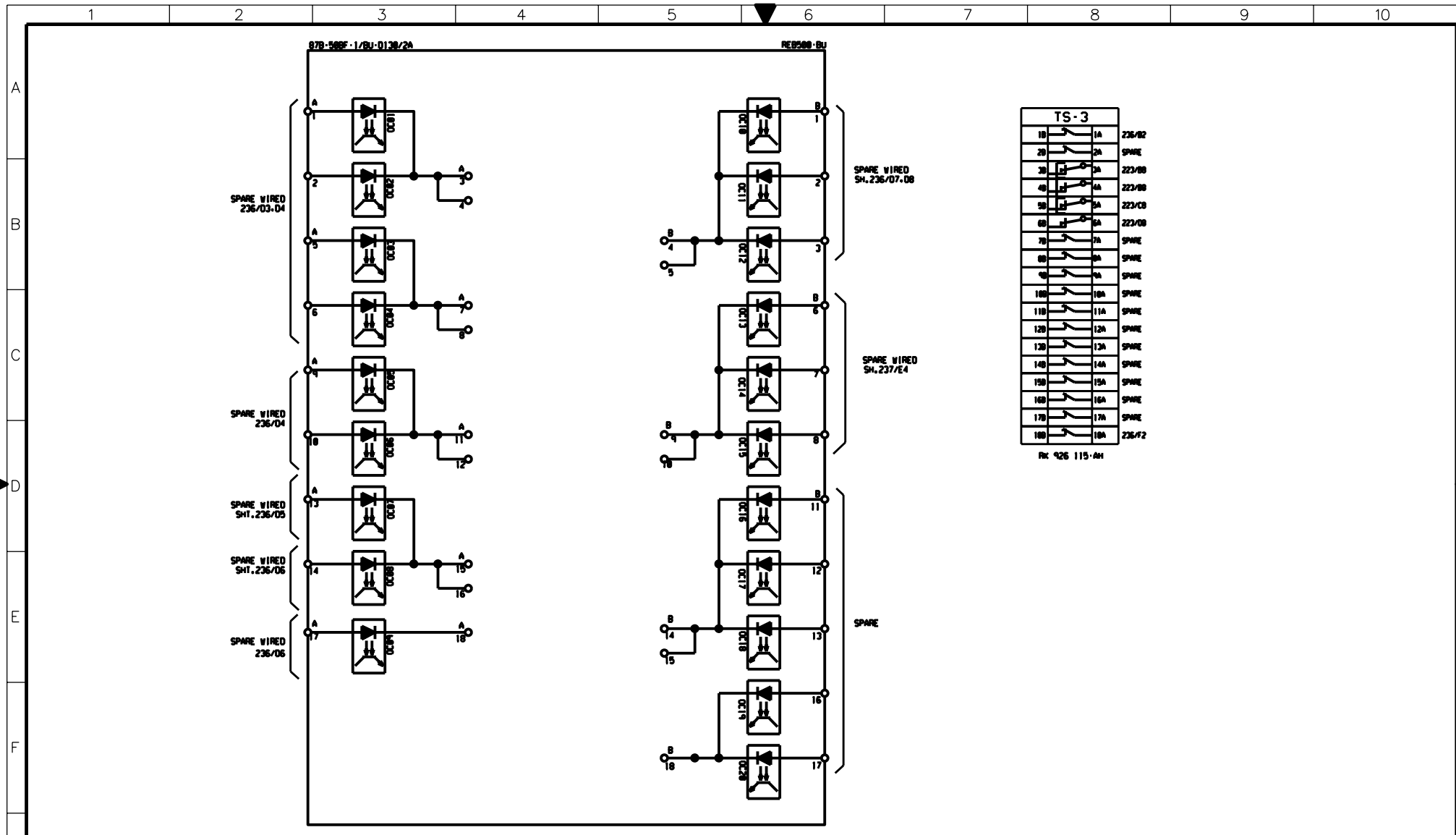
TS-2			
1B	1A	234/B2	
2B	2A	234/C6	
3B	3A	222/B8	
4B	4A	222/B8	
5B	5A	222/C8	
6B	6A	222/C8	
7B	7A	SPARE	
8B	8A	235/O2	
9B	9A	SPARE	
10B	10A	SPARE	
11B	11A	SPARE	
12B	12A	SPARE	
13B	13A	SPARE	
14B	14A	238/B4	
15B	15A	238/B4	
16B	16A	238/B6	
17B	17A	238/B6	
18B	18A	234/F2	

RK 926 115-AM

AS-BUILT BY _____ DATE _____		CONTRACT NO. 1113113/00	JOB ORDER NO. S-13656	BLOCK REFERENCE-87B+50BF-1/BU-D130/1A		الشركة الوطنية لنقل الكهرباء		نقل الكهرباء		
DRAWN BY RIZ CHECKED BY KVR		DATE STARTED 24.01.2013 DATE COMPLETED _____		132KV BUSBAR PROTN. MAIN-1 BU PANEL +8BP1-3		National Grid sa				
DATE STARTED 24.01.2013 DATE COMPLETED _____		PRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY		INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
PRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		RIYADH SAUDI ARABIA		-	C421	CD-322995	296	297	01	



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AS-BUILT BY _____ DATE _____		CONTRACT NO. 11131060/00		JOB ORDER NO. NA		BLOCK REFERENCE-87B+50BF-1/BU-D130/2A		نقل الكهرباء الشركة الوطنية لنقل الكهرباء National Grid sa	
DRAWN BY RIZ CHECKED BY KVR		DATE STARTED 24.01.2013 DATE COMPLETED _____		S/S 8709 - 132kV IN AL-KHARJ CITY		INDEX - PLANT NO. C421			
01 13 49 FACTORY ASBUILT 00 13 04 FOR APPROVAL		OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-3 RİYADH SAUDI ARABIA		DRAWING NUMBER CD-322995 SHEET NO. 298 CONT. 301		REV. NO. 01	

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